FIG. 1

$$CH_3$$
 $H_3C \longrightarrow N^{+} \longrightarrow (CH_2)_{m-1} \longrightarrow CH_3$
 $(CH_2)_n$
 $2Br^{-}$
 $H_3C \longrightarrow N^{+} \longrightarrow (CH_2)_{m-1} \longrightarrow CH_3$
 CH_3

n	m	Symbol
3	12	12-3-12
4	12	12-4-12
6	12	12-6-12
8	12	12-8-12
10	12	12-10-12
12	12	12-12-12
16	12	12-16-12
3	16	16-3-16

FIG. 2A

FIG. 2B

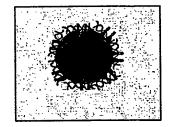
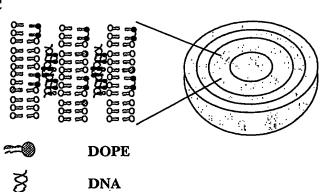


FIG. 2C





Gemini surfactant



DPPC

FIG. 3A

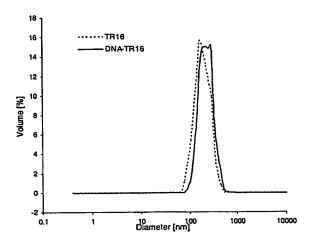


FIG. 3B

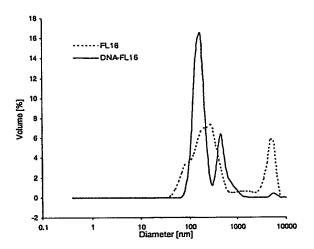


FIG. 3C

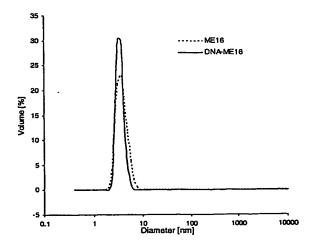


FIG. 4

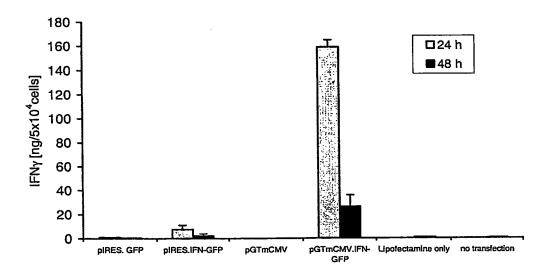


FIG. 5A

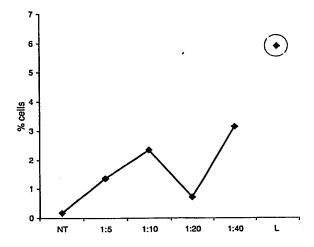


FIG. 5B

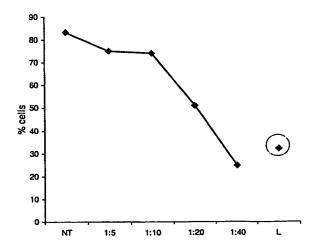


FIG. 6

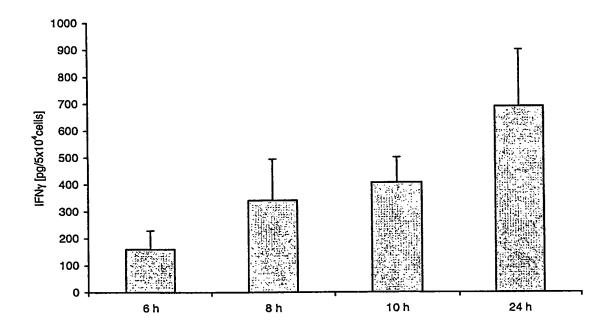


FIG. 7A

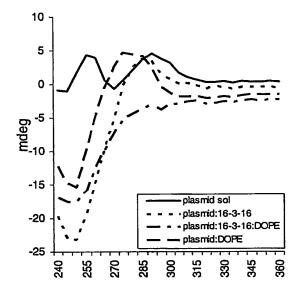


FIG. 7B

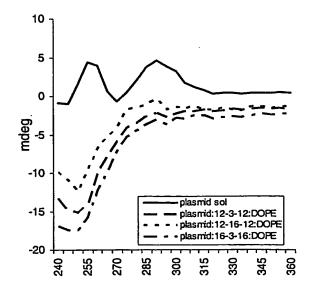


FIG. 8A

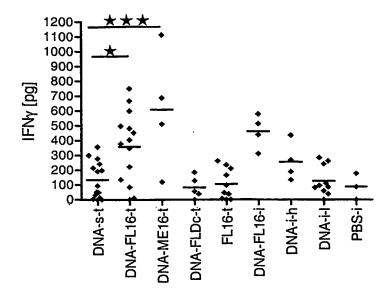


FIG. 8B

